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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/936,723 03/01/2002		Martin Caldwell	1890-0019	1585	
75	90 05/08/2003				
Nixon Peabody			EXAMINER		
Suite 800 8180 Greensboro Drive			PHANIJPHAND, GWEN G		
McLean, VA 2	2102		ART UNIT	PAPER NUMBER	
			3731	\bigcirc	
			DATE MAILED: 05/08/2003	X	

Please find below and/or attached an Office communication concerning this application or proceeding.

3		Application No.	Applicant(s)	CN			
		09/936,723	CALDWEL	L ET AL.	U'			
	Office Action Summary	Examiner	Art Unit					
		Gwen Phanijphano						
Period f	The MAILING DATE of this communication app or Reply	pears on the cover s	heet with the corresponde	nce address	;			
THE - Ext afte - If th - If N - Fai - Any	HORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication e period for reply specified above is less than thirty (30) days, a repl O period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute to reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howeve y within the statutory minim will apply and will expire SIX s, cause the application to b	r, may a reply be timely filed um of thirty (30) days will be conside t (6) MONTHS from the mailing date scome ABANDONED (35 U.S.C. §	e of this commun 133).	ication.			
1) 🛛	Responsive to communication(s) filed on 01 i	<u> March 2002</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	nis action is non-fina	l.					
3)	closed in accordance with the practice under	ance except for forr Ex parte Quayle, 1	nal matters, prosecution a 935 C.D. 11, 453 O.G. 21	as to the me 3.	rits is			
-	tion of Claims							
4)⊠	Claim(s) <u>1-8</u> is/are pending in the application.		on					
E \[4a) Of the above claim(s) is/are withdra	wii iioiii considerati	on.					
5)L	· · · · · · · · · · · · · · · · · · ·							
·	Claim(s) <u>1 and 3-8</u> is/are rejected.							
/)⊠ ∾⊏	Claim(s) 2 is/are objected to.	or alaction requirem	ont					
∟(o Applica	Claim(s) are subject to restriction and/o	or election requirem	ziit.					
	The specification is objected to by the Examine	er.						
, —	The drawing(s) filed on <u>3/01/2002</u> is/are: a)⊠ a		cted to by the Examiner.					
,	Applicant may not request that any objection to the			I.85(a).				
11)	The proposed drawing correction filed on	_ is: a)∏ approved	b) disapproved by the	Examiner.				
	If approved, corrected drawings are required in re	ply to this Office actio	n.					
12)	The oath or declaration is objected to by the Ex	kaminer.						
Priority	under 35 U.S.C. §§ 119 and 120							
13)区	Acknowledgment is made of a claim for foreign	n priority under 35 l	J.S.C. § 119(a)-(d) or (f).					
а)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
*	3. Copies of the certified copies of the prior application from the International Busee the attached detailed Office action for a list	ıreau (PCT Rule 17	.2(a)).	ational Stag	е			
	Acknowledgment is made of a claim for domest			visional app	lication).			
	a) The translation of the foreign language pro Acknowledgment is made of a claim for domest	ovisional applicatior	has been received.					
Attachme		,	••					
1) 🔯 Not 2) 🔲 Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) 🔲 N	nterview Summary (PTO-413) P lotice of Informal Patent Applica ther:					

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DETAILED ACTION

Claim Rejections - 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1, 3, 4, and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,984,564 to Yuen.

Regarding claim 1, Yuen discloses a device for use in minimally invasive surgery using an inflated body cavity accessible to a surgeon through an access port, defined by the device, surrounding an incision in a patient's body (col. 1, II. 14-24). The device has a body cavity engagement means for insertion into the incision to locate the device in position, a fixing means for attaching the device to a patient's skin (Fig. 2: element 12), and a sleeve connected between the body cavity engagement means and the fixing means defining an access port (Fig. 2: element 16). The device includes a sealing means (Fig. 2: element 16), operating on the sleeve to prevent substantial leakage of gas from the body cavity on inflation when in an inoperative position and formed to mould a substantial portion of a surgeon's hand or surgical instrument on insertion in an operating position (col. 4, II. 34-52). The inflatable cuff, 16, is made up of pockets that are inflatable and provide an opening within the device. In Fig. 3, the sealing means is provided by an inflatable first seal for engaging and retracting the incision (element 34: "outer wall") and a second inflatable seal (element 32: "inner wall") for sealing the lumen of the tube or sleeve bore (col. 4, II. 28-36).

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Regarding claim 3, Yuen discloses in Fig. 2 a device in which the body cavity engagement means (14) is provided by a distal ring formed for insertion into the incision.

Regarding claim 4, Yuen discloses in Fig. 2 a device in which the fixing means (12) is provided by a proximal ring for engaging with a patient's skin.

Regarding claim 6, Yuen discloses in Fig. 3 a device in which the first seal (34) is provided by an inflatable bladder extending outwardly from the sleeve on inflation to form a seal with the incision (col. 3, Il. 28-36). As the cuff is inflated, the outer wall (first seal) of the cuff becomes inflated, expands, and forms a seal with the incision (col. 4, Il. 40-44).

Regarding claim 7, Yuen discloses in Fig. 3 a device in which the second seal (32) is provided by an inflatable bladder extending inwardly from the tube or sleeve on inflation that is capable of preventing excessive loss of gas through the access port (col. 3, Il. 28-36). When the cuff is inflated, the inner wall (second seal) expands and is capable of being inflated to prevent loss of gas through the access port (col. 4, Il. 40-44).

Regarding claim 8, Yuen discloses in Fig. 2 a device in which the second seal (32) is operatively connected and mounted within the first seal (34).

2. Claims 1 and 3-8 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,545,179 to Williamson, IV.

Regarding claim 1, Williamson, IV discloses a device for use in minimally invasive surgery of the type using an inflated body cavity accessible to a surgeon through an access port, defined by the device, surrounding an incision in a patient's body (Abstract). The device has a body cavity engagement means (Fig. 5: element 40) for insertion into the incision to locate the device in position, a fixing means for attaching the device to a patient's skin (Fig. 5: element 27),

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and a sleeve connected between the body cavity engagement means and the fixing means defining an access port (Fig. 5: element 26). The device includes a sealing means (Fig. 5: elements 35 and 34), operating on the sleeve to prevent substantial leakage of gas from the body cavity on inflation when in an inoperative position and formed to mould a substantial portion of a surgeon's hand or surgical instrument on insertion in an operating position. The sealing means is provided by an inflatable first seal (35) for engaging and retracting the incision and a second inflatable seal (34) for sealing the lumen of the tube or sleeve bore.

Regarding claim 3, Williamson, IV discloses in Fig. 5 a device in which the body cavity engagement means (40) is provided by a distal ring formed for insertion into the incision. The distal end, 35 and 37 of 34, forms a ring shape and is used for insertion. In Fig. 1, the engagement means (element 23 in this Figure) is shown inserted into the incision.

Regarding claim 4, Williamson, IV discloses in Fig. 5 a device in which the fixing means is provided by a proximal ring (27) for engaging with a patient's skin.

Regarding claim 5, Williamson, IV discloses in Fig. 5 a device in which the proximal ring (27) has an associated connector ring (25) for receiving additional seals or medical instruments.

Regarding claim 6, Williamson, IV discloses in Fig. 5 a device in which the first seal (35) is provided by an inflatable bladder extending outwardly from the sleeve on inflation to form a seal with the incision (col. 5, II. 58-67; col. 6, II. 1-3). The outer inflatable sleeve, 35, comprises of element 40, which is inflated and seals the incision.

Regarding claim 7, Williamson, IV discloses in Fig. 5 a device in which the second seal (34) is provided by an inflatable bladder extending inwardly from the tube or sleeve on inflation

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that is capable of preventing excessive loss of gas through the access port (col. 2, II. 60-64; col. 5, II. 63-67). The second seal is the inflation of the "inner channel" or "inner wall of the central channel" that compresses and provides a seal.

Regarding claim 8, Williamson, IV discloses in Fig. 5 a device in which the second seal (34) is operatively connected and mounted within the first seal (35).

3. Claims 1, 3, 4, and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,634,937 to Mollenauer et al.

Regarding claim 1, Mollenauer et al. disclose a device for use in minimally invasive surgery using an inflated body cavity accessible to a surgeon through an access port, defined by the device, surrounding an incision in a patient's body (Abstract). In Fig. 17, the device has a body cavity engagement means (61) for insertion into the incision to locate the device in position, a fixing means (60) for attaching the device to a patient's skin, and a sleeve connected between the body cavity engagement means and the fixing means defining an access port. In Fig. 12, the device includes a sealing means (49, 50), operating on the sleeve to prevent substantial leakage of gas from the body cavity on inflation when in an inoperative position and formed to mould a substantial portion of a surgeon's hand or surgical instrument on insertion in an operating position. The sealing means is provided by an inflatable first seal (50) for engaging and retracting the incision and a second inflatable seal (49) for sealing the lumen of the tube or sleeve bore (col. 10, Il. 35-38, Il. 54-65).

Regarding claim 3, Mollenauer et al. disclose in Fig. 17 a device in which the body cavity engagement means is provided by a distal ring (61) formed for insertion into the incision. In Fig. 12, the distal end of the balloon is formed by the outer balloon membrane, 50, and the inner

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balloon membrane, 49, which both create a ring shape that is inserted into the incision (col. 10, 11, 26-30).

Regarding claim 4, Mollenauer et al. disclose in Fig. 17 a device in which the fixing means (60) is provided by a proximal ring for engaging with a patient's skin. In Fig. 12, the proximal end of the balloon is formed by the outer balloon membrane, 50, and the inner balloon membrane, 49, which both create a ring shape that remains on the skin (col. 10, ll. 30-33).

Regarding claim 6, Mollenauer et al. disclose a device in which the first seal (Fig. 12: element 50) is provided by an inflatable bladder extending outwardly from the sleeve on inflation to form a seal with the incision (col. 10, ll. 10-15, 55-60). In Fig. 17 as the balloon is inflated, the first seal expands against the skin and subcutaneous fat (elements 27 and 33)

Regarding claim 7, Mollenauer et al. disclose a device in which the second seal (Fig. 12: element 49) is provided by an inflatable bladder extending inwardly from the tube or sleeve on inflation to prevent excessive loss of gas through the access port (col. 10, ll. 60-64).

Regarding claim 8, Mollenauer et al disclose in Fig. 12 a device in which the second seal (49) is operatively connected and mounted within the first seal (50).

Allowable Subject Matter

4. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

The prior art made record of and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 6,033,426 to Kaji

U.S. Patent No. 5,871,474 to Hermann et al.

U.S. Patent No. 5,522,791 to Leyva

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gwen Phanijphand whose telephone number is 703-305-4845.

The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Milano can be reached on 703-308-2496. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3590 for regular communications and 703-305-3590 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

GP

12P

April 29, 2003

Gwen Phanijphand

Patent Examiner
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Michael J. Milano

Supervisory Patent Examiner

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Technology Center 3700